

## Compact evaluation unit for speed monitoring

DIA3010-ZPKG/30-3000 I/MIN

Article no longer available - archive entry

Alternative articles: DI5020

When selecting an alternative article and accessories please note that technical data may differ!



## Product characteristics

|                    |                    |
|--------------------|--------------------|
| Electrical design  | PNP                |
| Output function    | normally open      |
| Sensing range [mm] | 10                 |
| Dimensions [mm]    | M30 x 1.5 / L = 81 |

## Application

|             |                                                                                       |
|-------------|---------------------------------------------------------------------------------------|
| Application | simple evaluation of rotating and linear movement with regard to underspeed; blocking |
|-------------|---------------------------------------------------------------------------------------|

## Electrical data

|                             |         |
|-----------------------------|---------|
| Nominal voltage DC [V]      | 10...36 |
| Current consumption [mA]    | < 15    |
| Reverse polarity protection | yes     |

## Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Total number of outputs                              | 1             |
| Electrical design                                    | PNP           |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 2.5           |
| Permanent current rating of switching output DC [mA] | 250           |
| Short-time current rating of switching output [mA]   | 250           |
| Short-circuit proof                                  | yes           |
| Overload protection                                  | yes           |

## Detection zone

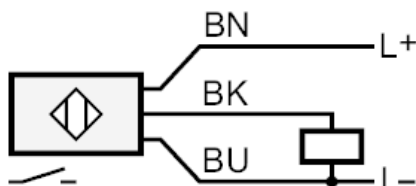
|                          |    |
|--------------------------|----|
| Sensing range [mm]       | 10 |
| Sensing range adjustable | no |



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DIA3010-ZPKG/30-3000 I/MIN

| Measuring/setting range                  |                  |                                                                             |
|------------------------------------------|------------------|-----------------------------------------------------------------------------|
| Setting range                            | [Imp/min]        | 30...3000                                                                   |
| Accuracy / deviations                    |                  |                                                                             |
| Correction factor                        |                  | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis                               | [% of Sr]        | 10                                                                          |
| Response times                           |                  |                                                                             |
| Start-up delay                           | [s]              | 15                                                                          |
| Max. damping frequency                   | [Imp/min]        | 15000                                                                       |
| Software / programming                   |                  |                                                                             |
| Adjustment of the switch point           |                  | multiturn potentiometer                                                     |
| Operating conditions                     |                  |                                                                             |
| Ambient temperature                      | [°C]             | -25...80                                                                    |
| Protection                               |                  | IP 67                                                                       |
| Mechanical data                          |                  |                                                                             |
| Weight                                   | [g]              | 258.4                                                                       |
| Mounting                                 |                  | flush mountable                                                             |
| Dimensions                               | [mm]             | M30 x 1.5 / L = 81                                                          |
| Thread designation                       |                  | M30 x 1.5                                                                   |
| Materials                                |                  | brass special coating; PBT                                                  |
| Tightening torque                        | [Nm]             | 50                                                                          |
| Displays / operating elements            |                  |                                                                             |
| Display                                  | switching status | 1 x LED, green                                                              |
| Electrical connection                    |                  |                                                                             |
| Cable: 2 m, PVC; 3 x 0.5 mm <sup>2</sup> |                  |                                                                             |
| Connection                               |                  |                                                                             |



Core colours :  
 BK = black  
 BN = brown  
 BU = blue